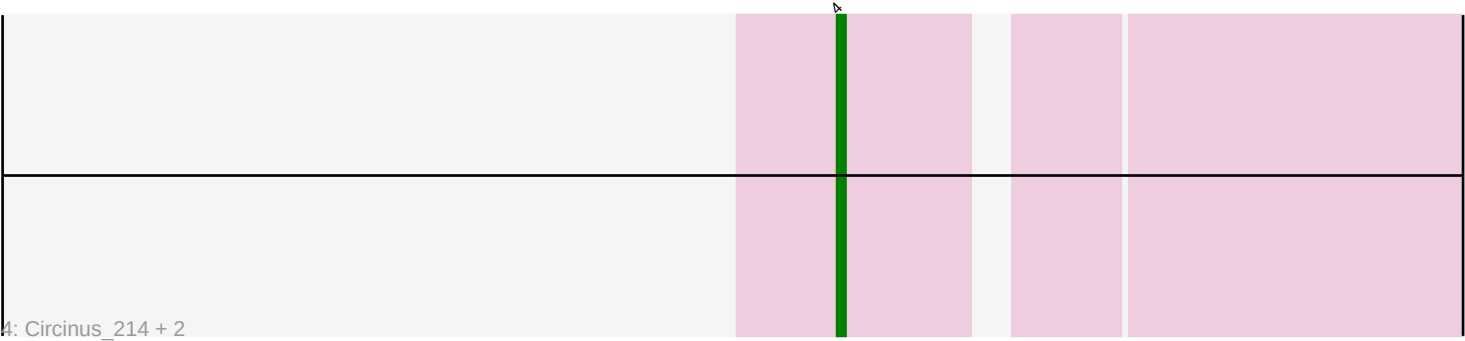
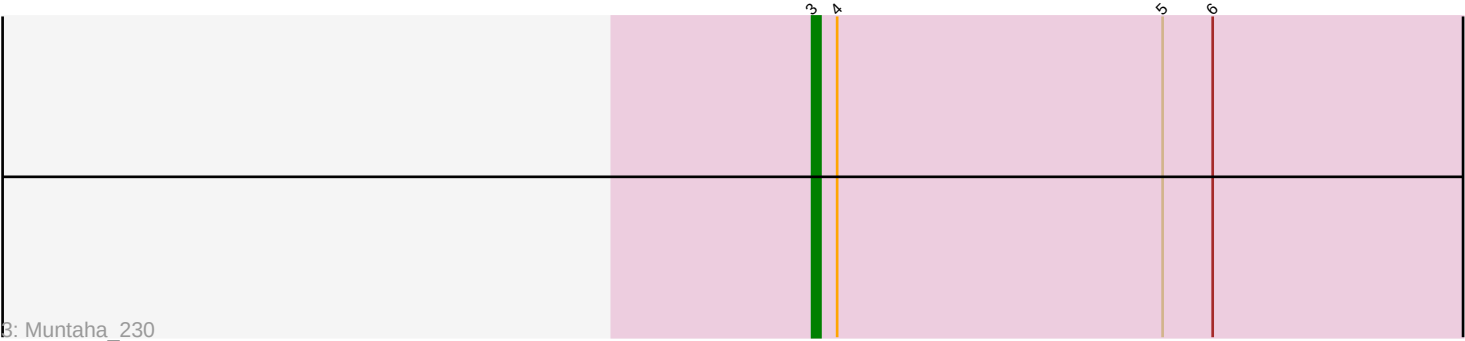
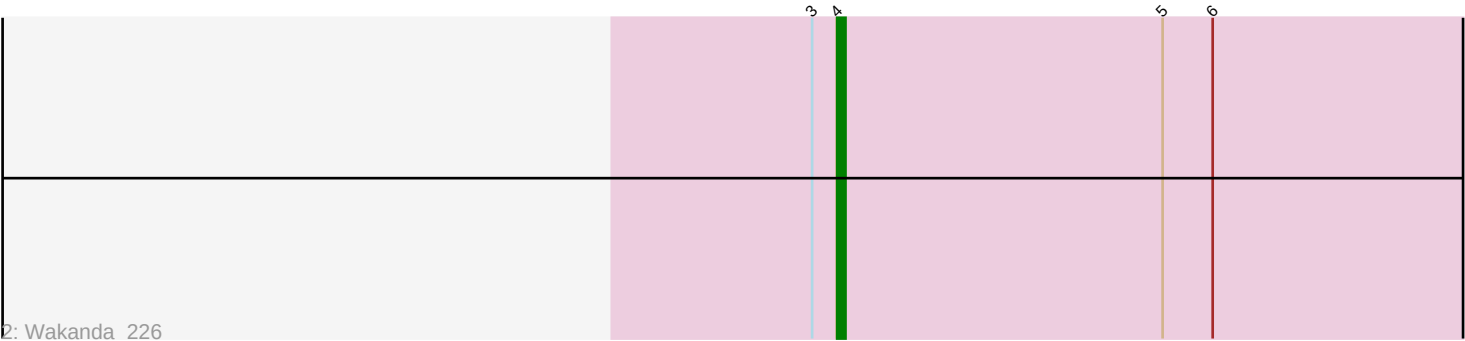
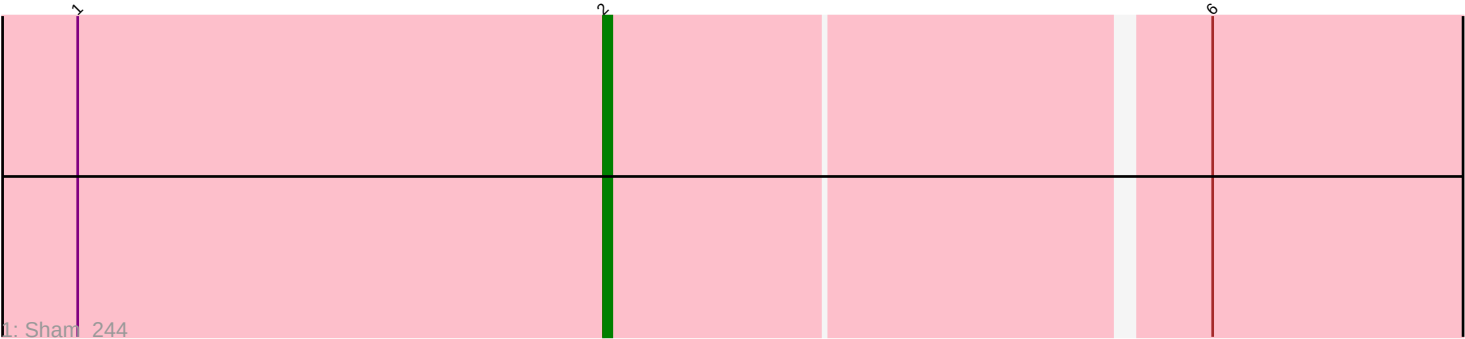




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 331678 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331678 has 6 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Sham_244
- Track 2 : Wakanda_226
- Track 3 : Muntaha_230
- Track 4 : Circinus_214, BillNye_214, Chaewon_218

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 4, it was called in 4 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BillNye_214, Chaewon_218, Circinus_214, Wakanda_226,

Genes that have the "Most Annotated" start but do not call it:

- Muntaha_230,

Genes that do not have the "Most Annotated" start:

- Sham_244,

Summary by start number:

Start 2:

- Found in 1 of 6 (16.7%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sham_244 (BK1),

Start 3:

- Found in 2 of 6 (33.3%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Muntaha_230 (BK2),

Start 4:

- Found in 5 of 6 (83.3%) of genes in pham
- Manual Annotations of this start: 4 of 6
- Called 80.0% of time when present
- Phage (with cluster) where this start called: BillNye_214 (BK2), Chaewon_218 (BK2), Circinus_214 (BK2), Wakanda_226 (BK2),

Summary by clusters:

There are 2 clusters represented in this pham: BK1, BK2,

Info for manual annotations of cluster BK1:

- Start number 2 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 3 was manually annotated 1 time for cluster BK2.
- Start number 4 was manually annotated 4 times for cluster BK2.

Gene Information:

Gene: BillNye_214 Start: 111204, Stop: 111326, Start Num: 4

Candidate Starts for BillNye_214:

(Start: 4 @111204 has 4 MA's),

Gene: Chaewon_218 Start: 111133, Stop: 111255, Start Num: 4

Candidate Starts for Chaewon_218:

(Start: 4 @111133 has 4 MA's),

Gene: Circinus_214 Start: 110794, Stop: 110916, Start Num: 4

Candidate Starts for Circinus_214:

(Start: 4 @110794 has 4 MA's),

Gene: Muntaha_230 Start: 111521, Stop: 111652, Start Num: 3

Candidate Starts for Muntaha_230:

(Start: 3 @111521 has 1 MA's), (Start: 4 @111524 has 4 MA's), (5, 111563), (6, 111569),

Gene: Sham_244 Start: 121606, Stop: 121755, Start Num: 2

Candidate Starts for Sham_244:

(1, 121543), (Start: 2 @121606 has 1 MA's), (6, 121675),

Gene: Wakanda_226 Start: 110511, Stop: 110639, Start Num: 4

Candidate Starts for Wakanda_226:

(Start: 3 @110508 has 1 MA's), (Start: 4 @110511 has 4 MA's), (5, 110550), (6, 110556),